BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Roads and Drains at Afzal Layout in Ward No. 6 Byatarayanapura Sub Division

			Estimate Cost Rs.					2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-16	Cum							
	For Slab Dain Afzal Layout 1st Main Road Left Side		6	30.00	0.75	0.75	101.25		
	2nd Main Road Left Side		6	30.00	0.75	0.75	101.25		
	For Culverts		11	6.50	1.95	1.05	146.40		
							348.90	288.36	**100608.00**
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total	**288.36**							
2	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2015-16	**Sqm**							
	For Slab Dain Afzal Layout 1st Main Road		6	30.00	1.65		297.00		
	2nd Main Road Left Side		6	30.00	1.65		297.00		
							594.00	663.12	**393893.00**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	**663.12**							
3	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2015-16	**Cum**							
	For Culverts		11	6.50	1.95	0.15	20.91		
							20.91	5070.60	**106045.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2015-16	cum							
	For Culverts		11X2	6.50	0.60	0.45	38.61		
							38.61	4135.32	**159665.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
5	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2015-16	**Sqm**							
	For Culverts		11X2	6.50	0.50	0.45	32.18		
							32.18	**4905.36**	**157830.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
6	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2015-16	**Sqm**							
	For Culverts		11	6.50	0.60		42.90		
	For Sides		11X2	6.50	0.23		32.89		
			11X2	1.65	0.23		8.35		
							84.14	**270.00**	**22718.00**
	Basic Rate	**250.00**							
	Area Weightage @ 8%	20.00							
	Total	**270.00**							
7	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2015-16	**cum**							
	For Culverts		11X2	6.50	0.50	0.10	7.15		
	Vent Bed		11	6.50	0.60	0.10	4.29		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							11.44	5491.80	**62826.00**
	Basic Rate	5085.00							
	Area Weightage @ 8%	406.80							
	Total	**5491.80**							
8	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2015-16	Sqm							
	For Culverts		11X2	6.50		0.50	71.50		
							71.50	99.36	**7104.00**
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	**99.36**							
9	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	**Cum**							
	For Culverts		11	6.50	1.65	0.23	27.13		
							27.13	6198.12	**168181.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							
10	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2015-16	**Qtl**							
	0.65Ton/Cum		0.050	27.13			**1.36**	69805.80	**94706.00**
	Basic Rate	64635.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
11	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 156/ Item No. 19.60/ PWD SR 2015-16	**Cum**							
	Afzal Layout 1st Main Road Left Side		6	30.00	5.00	0.20	180.00		
	2nd Main Road Left Side		6	30.00	5.00	0.20	180.00		
							360.00	311.04	**111974.00**
	Basic Rate	288.00							
	Area Weightage @ 8%	23.04							
	Total	**311.04**							
12	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for grading II , No. 166/ Item No. 20.14.1/ PWD SR 2015-16	**Cum**							
	Afzal Layout 1st Main Road Left Side		6	30.00	5.00	0.10	90.00		
	2nd Main Road Left Side		6	30.00	5.00	0.10	90.00		
							180.00	1751.76	**315317.00**
	Basic Rate	1622.00							
	Area Weightage @ 8%	129.76							
	Total	**1751.76**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB M400-14.2: Providing, laying, spreading and compacting stone aggregates of specific size to water bound macadam specifications. Including spreading in uniform thickness, hand packing, rolling with 3-whelled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per specifications. B by mechanical means, MORTH specification No. 404, Crushable type such as moorum or gravel for grading III , No. 166/ Item No. 20.15.3/ PWD SR 2015-16	Cum							
	Afzal Layout 1st Main Road Left Side		6	30.00	5.00	0.075	67.50		
	2nd Main Road Left Side		6	30.00	5.00	0.075	67.50		
							135.00	1867.32	**252088.00**
	Basic Rate	1729.00							
	Area Weightage @ 8%	138.32							
	Total	**1867.32**							
14	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1+2				**348.90**		
							348.90	67.32	**23488.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
							Grand Total		**1976443.00**
15	For 1% Third Party Inspection Charges								**19764.00**
16	Miscesallaneous Charges	L/S							3793
								Total	**2000000.00**

Rupees Twenty Lakh(s) Only

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

H.V.Y
ಸ.ಅ.ಅ. (ಬಾ.ವಿ) 7/12/15

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

Administrative Approval
Accorded For ....20.00 lakhRs.
Head of A/C.....P3075
CER NO :.....5A..... Dt:..14.12.15

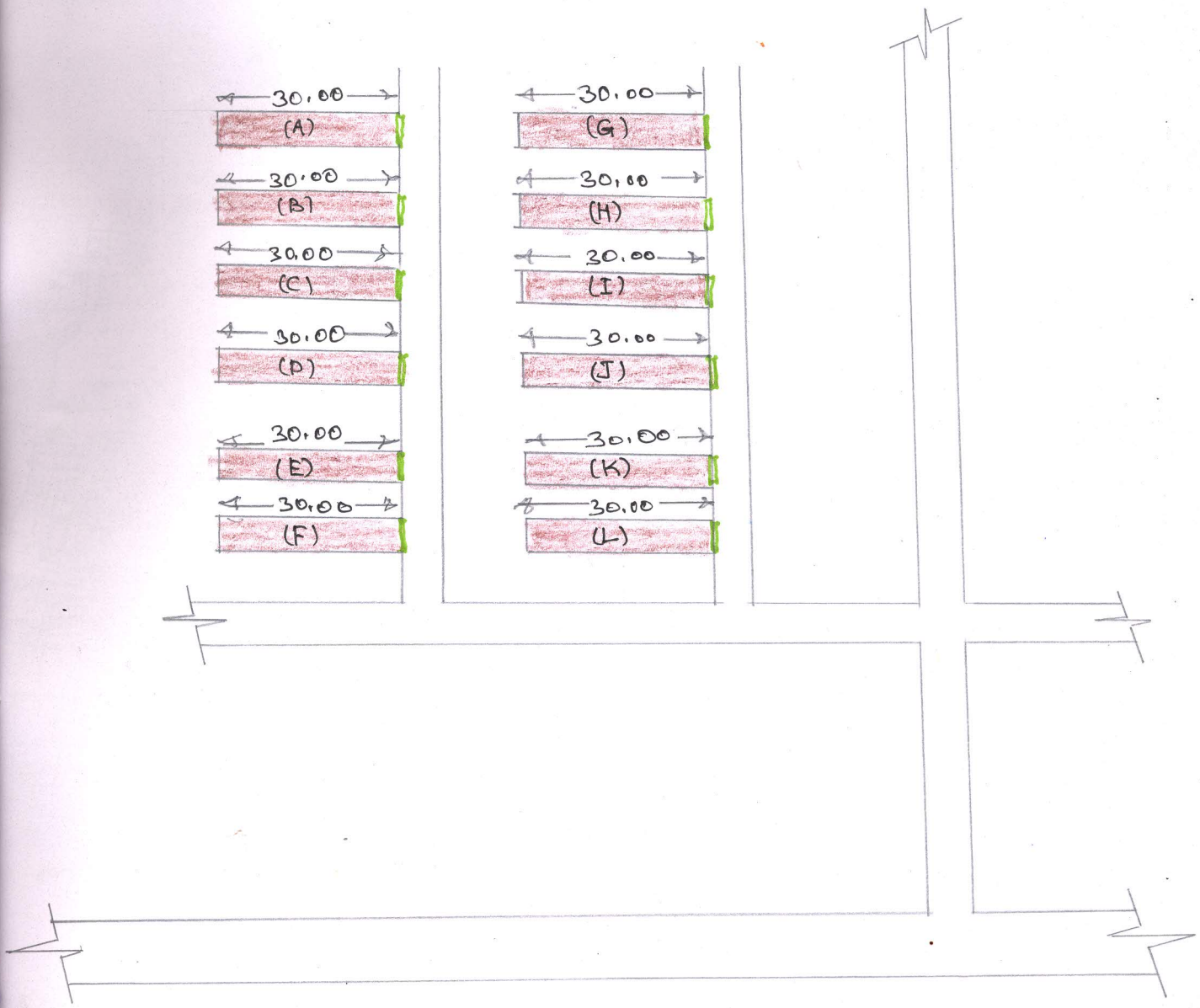
TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs.....20,00,000/-
Head of A/c.....P-3075
Div. Ref. No.....260/-.....Date.26.12.15
AE
H.V.Y EE(BTP)
24/12

Name of Wrok: Improvements to Roads and Drains at Afzal Layout in Ward No. 6 Byatarayanapura Sub Division

PROPOSED CULVERTS,

PROPOSED METTALING,



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

30/10
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24